Application No.: 10/717,721 Attorney Docket No.: P0020005.00

Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

- 1. (Previously presented) A medical electrical lead, comprising: a component including a surface and a groove formed in the surface; a conductor, the conductor extending within the lead and including a plurality of wire strands cabled together positioned within the groove of the component; and a resistance weld formed between the conductor and the component; wherein the groove includes a depth and the conductor positioned within the groove includes a pre-weld diameter, the pre-weld diameter being greater than the depth of the groove.
- 2. (Original) The medical electrical lead of claim 1, wherein the surface has a curved profile.
- 3. (Previously presented) The medical electrical lead of claim 2, wherein the component comprises a substantially tubular body and wherein the surface is an inner surface of the substantially tubular body.
- 4. (Original) The medical electrical lead of claim 2, wherein the surface of the component forms an outer diameter.
- 5. (Original) The medical electrical lead of claim 2, wherein the surface of the component forms an inner diameter and the component further includes an outer electrode surface.
- 6. (Original) The medical electrical lead of claim 5, wherein the outer electrode surface includes a titanium nitride coating.

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- 7. Cancelled
- 8. (Original) The medical electrical lead of claim 1, wherein the conductor is a coil.
- 9. (Original) The medical electrical lead of claim 1, wherein the groove extends approximately aligned with a longitudinal axis of the component.
- 10. (Original) The medical electrical lead of claim 1, wherein the groove extends approximately transverse to a longitudinal axis of the component.
- 11. (Previously presented) The medical electrical lead of claim 2, wherein the groove spiraling about a portion of a circumference of the surface.
- 12. (Original) The medical electrical lead of claim 1, wherein the groove includes an approximately semi-circular cross-section.
- 13. (Original) The medical electrical lead of claim 1, wherein the groove includes an approximately v-shaped cross-section.
- 14. (Cancelled)
- 15 24. (Cancelled)
- 25. (Previously presented) The medical electrical lead of claim 1, wherein the component comprises an elongated body, and wherein the groove comprises a longitudinal slot substantially parallel with the longitudinal axis of the elongated body.
- 26 28. (Cancelled)

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29. (Previously presented) A medical electrical lead, comprising:

a component comprising a substantially tubular body having an inner surface and a groove formed in the inner surface;

a conductor comprising a plurality of wire strands cabled together, the conductor extending within the lead and positioned within the groove of the component; and

a resistance weld formed between the conductor and the component;

wherein the groove includes a depth and the conductor positioned within the groove includes a pre-weld diameter, the pre-weld diameter being greater than the depth of the groove.